

FORM PTO-1449, Adapted

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ATTY. DOCKET NO.		SERIAL NO.	FILING DATE			RECEIVED APR 10 2002 TECHNOLOGY CENTER R3700
17509-0024 <i>O I P E</i>		10/042,996	January 9, 2002			
APPLICANT(S) Santini, Jr., et al.		APR 09 2002 <i>RECEIVED</i>	GROUP 3763			
<b>U.S. PATENT DOCUMENTS</b>						
EXAMINER'S INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>mjh</i>	3,692,027	09/19/72	Ellinwood, Jr.			
	4,360,019	11/23/82	Portner et al.			
	4,507,115	03/26/85	Kambara et al.			
	4,585,652	04/29/86	Miller et al.			
	4,731,049	03/15/88	Parsi			
	4,793,825	12/27/88	Benjamin et al.			
	5,042,975	08/27/91	Chien et al.			
	5,167,625	12/01/92	Jacobsen et al.			
	5,170,801	12/15/92	Casper et al.			
	5,200,051	04/06/93	Cozzette, et al.			
<b>FOREIGN PATENT DOCUMENTS</b>						
	DOCUMENT NUMBER	DATE	COUNTRY	NAME	TRANSLATION YES      NO	
<i>mjh</i>	93/03790	03/04/93	WO	Rutgers, The State University of NJ		
	197 16 683	06/04/98	DE	Fraunhofer Ges Forschung	X	
	00/40089	07/13/00	WO	Massachusetts Eye & Ear Infirmary		
	01/12157	02/22/01	WO	MicroCHIPS, Inc.		
<b>OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)</b>						
<i>mjh</i>	Ambati, et al., "Transscleral Delivery of Antibodies to the Posterior Segment," Investigative Ophthalm. & Visual Sci., 40(4):457-B417 (1999).					
	Barillaro, et al., Optical Materials, 17(1-2):91-94 (2001).					
	Bremus-Kobberling, et al., "Laser Microperforation of a Retina Implant," Presentation at Microtechnology Conference, Germany, September 25-26, 2000.					
<i>mjh</i>	Low, et al., "Microactuators Towards Microvalves for Responsive Controlled Drug Delivery," Sensors & Actuators B 67: 149-60 (2000).					
EXAMINER	<i>Mjh/R</i>			DATE CONSIDERED <i>2/16/05</i>		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.						

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17509-0024		10042,996	January 9, 2002
APPLICANT(S)	APR 09 2002		GROUP
Santini, Jr., et al.			3763

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
mll.	5,252,294	10/12/93	Kroy et al.			
	5,279,607	01/18/94	Schentag et al.			
	5,318,557	06/07/94	Gross			
	5,324,316	06/28/94	Schulman et al.			
	5,336,213	08/09/94	D'Angelo et al.			
	5,366,454	11/22/94	Currie et al.			
	5,368,704	11/29/94	Madou et al.			
	5,368,588	11/29/94	Bettinger			
	5,429,822	07/04/95	Gresser et al.			
✓	5,443,508	08/22/95	Giampapa			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	NAME	TRANSLATION YES      NO
mll.	01/35928	05/25/01	WO	MicroCHIPS, Inc.	
	01/37926	05/31/01	WO	Abiomed, Inc.	
	01/41736	06/14/01	WO	Massachusetts Institute of Technology	
✓	01/64344	09/07/01	WO	MicroCHIPS, Inc.	

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

mll.	Madou & Florkey, "From Batch to Continuous Manufacturing of Microbiomedical Devices," <i>Chem. Rev.</i> , 100: 2679-92 (2000).
	Madou, Fundamentals of Microfabrication, pp. 468-512 (CRC Press 1997).
	Madou & He, "Exploitation of a Novel Artificial Muscle for Controlled Drug Delivery," pp. 495-497 (1999).
✓	Schwarz, et al., "Micro Implantable Visual Prostheses," 1 <sup>st</sup> Annual Int'l IEEE-EMBS Special Topic Conference on Microtechnologies in Medicine & Biology, Lyon, France, October 12-14, 2000.

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APR 09 2002

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
mjh.	5,474,527	12/12/95	Bettinger			
	5,585,069	12/17/96	Zanzucchi et al.			
	5,713,954	02/03/98	Rosenberg et al.			
	5,797,898	08/25/98	Santini, Jr. et al.			RECEIVED
	5,798,042	08/25/98	Chu et al.			OCT 31 2002
	5,807,397	09/15/98	Barreras			TECHNOLOGY CENTER R3700
	5,841,122	11/24/98	Kirchhoff			
	5,842,787	12/01/98	Kopf-Sill et al.			
	5,843,767	12/01/98	Beattie			
✓	5,962,081	10/05/99	Öhman et al.			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	NAME	TRANSLATION YES      NO
mjh.	01/91902	12/06/01	WO	Massachusetts Institute of Technology	

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

mjh.	Surbled, et al., "Shape Memory Alloys for Micromembranes Actuation," SPIE 3825: 63-70 (1999).
	Surbled, et al., "Array of Shape Memory Alloy One-Shot Micro-Valves for Drug Delivery," MME '99, Gif sur Yvette, France (Sept. 27-28, 1999).
	Tierney, et al., "New Electrorelease Systems Based on Microporous Membranes," J. Electrochem. Soc., 137:3789-3793 (1990).
✓	Tierney, et al., "Electroreleasing Composite Membranes for Delivery of Insulin and Other Biomacromolecules," J. Electrochem. Soc., 137:2005-06 (1990).

EXAMINER	DATE CONSIDERED
mjh.	2/16/05

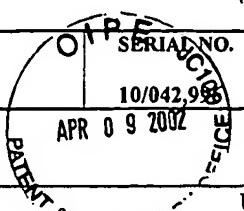
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ATTY. DOCKET NO.	SERIAL NO.	FILING DATE
17509-0024	10/042,988	January 9, 2002
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Santini, Jr., et al.		3763



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**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
mjh.	5,976,336	11/02/99	Dubrow et al.			
	5,989,445	11/23/99	Wise et al.			
	6,047,214	04/04/00	Mueller et al.			
	6,096,656	08/01/00	Matzke et al.			
	6,063,116	05/16/00	Kelleher et al.			OCT 31 2002
	6,123,861	09/26/00	Santini, Jr. et al.			TECHNOLOGY CENTER R3700
	6,140,740	10/31/00	Porat, et al.			
	6,171,850	01/09/01	Nagle et al.			
	6,243,608	06/05/01	Pauly et al.			
	09/638,109		Santini, Jr., et al.			08/11/00
	09/715,493		Santini, Jr., et al.			11/17/00
	09/727,858		Richards, et al.			12/01/00
	09/798,562		Santini, Jr., et al.			03/02/01
	09/975,672		Sheppard, Jr., et al.			10/10/01
↓	09/975,786		Sheppard, Jr., et al.			10/11/01

**OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)**

mjh.	http://www.controldelivery.com/cdstech.htm (2001).
mjh.	http://eyetechpharma.com/science/science_clinical.asp (2001).

EXAMINER	<i>Mmh/KJm</i>	DATE CONSIDERED	<i>2/16/05</i>
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APR 08 2003  
17509-0024

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ATTY. DOCKET NO. 17509-0024		SERIAL NO.	FILING DATE				
		10/042,996	January 9, 2002				
APPLICANT		GROUP					
John T. Santini, Jr. et al.		To be assigned					
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
mhh.		2002/0111658 A1	August 15, 2002	Greenberg et al.			
mhh.		2002/0188282 A1	December 12, 2002	Greenberg			<i>RECEIVED APR 11 2003</i>
							<i>TECHNOLOGY CENTER 2998</i>
<b>FOREIGN PATENT DOCUMENTS</b>							
	DOCUMENT NUMBER	DATE	COUNTRY	NAME	TRANSLATION		
					YES	NO	
<b>OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
EXAMINER	<i>M. Santini</i>			DATE CONSIDERED <i>9/22/04</i>			
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<b>U.S. PATENT DOCUMENTS</b>						
EXAMINER'S INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE If Appropriate
<i>mdu.</i>	5,707,643	01/13/98	Ogura et al.			
	5,743,274	04/28/98	Peyman			
	5,824,072	10/20/98	Wong			
	6,124,259	09/26/00	Delmage et al.			
<i>✓</i>	2003/0069560	04/10/03	Adamis et al.			
<b>FOREIGN PATENT DOCUMENTS</b>						
DOCUMENT NUMBER	DATE	COUNTRY	NAME	TRANSLATION Yes      No		
<b>OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)</b>						
EXAMINER <i>Mary J.</i>	DATE CONSIDERED <i>9/22/04</i>					
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